

SECTION 1433

RECLAIMED WATER LINES

1433.0100 GENERAL

1433.0101 Description of Work. The work under this Section shall consist of furnishing all labor, tools, and equipment required to install reclaimed water lines, including pipe, fittings, valves, and all other appurtenances in accordance with approved plans, plan details, and the requirements of these specifications and details.

This specification will identify the requirements for reclaimed water installations. All installations must follow the latest revisions of the appropriate AWWA and ANSI Standards.

1433.0300 EXECUTION

1433.0301 General.

(A) Utility Separation. Reclaimed water lines will be treated as sewer when crossing or adjacent to potable waterlines.

Reclaimed water lines will be treated as potable when crossing or installed adjacent to sewer lines. Please refer to TW Standard Detail 106.

Reclaimed and potable services shall have a minimum 6 feet of separation.

(B) Pipe Marking Tape and Pipe Detection Tape. Pipe marking tape and pipe detection tape shall be purple, and the warning message on the tape shall refer to "Reclaimed Water Lines" in accordance with Section 0210.

(C) Ductile Iron Pipe. Ductile iron pipe for reclaimed water lines shall have a double thickness cement mortar interior lining in accordance with Section 1401, and a purple polyethylene encasement.

(D) Polyvinyl Chloride Pipe. Polyvinyl chloride pipe for reclaimed use shall be purple in color and conform to AWWA C900, AWWA C905, and Section 1404.

(E) High Density Polyethylene Pipe. HDPE shall comply with Section 1403.

(F) Valve Boxes. Reclaimed valve boxes shall conform to TW Standard Detail 300.

(G) Testing and Flushing Reclaimed Water Lines. Reclaimed water lines will be filled, flushed, and tested with potable water. Chlorination of reclaimed water lines is not required.

The Contractor shall be responsible for obtaining all permits with the appropriate jurisdiction for all dewatering and connections to existing reclaim lines.

SECTION 1433

(H) Installation of Water Meters, Meter Boxes, and Service Lines. Water meters for use on reclaimed water lines will be installed by Tucson Water forces only.

Water meters will be painted purple in color.

Water meter boxes will be painted purple in color on the inside of the box and installed per TW Standard Details 309, 310, and 313.

Water meter boxes will have the letters "RW" welded or cast into the meter box lid. The letters will be 3 inches in height and the lid will be painted purple.

Reclaimed service lines will be wrapped with reclaimed detection tape. Tape will extend into the meter box and be taped to the meter stop(s). Tracer wire must be installed according to TW Standard Detail 116.